

WHAT IS CLAIMED:

1. A liquid crystal display comprising:
 - a display panel;
 - a back light irradiating through said display panel; and
 - a back light control circuit making a brightness of said back light
- 5 brighter at a first period than at a second period,

wherein said display panel displays a dynamic image at said first period, and wherein said display panel displays a static image at said second period.

2. The liquid crystal display as claimed in claim 1, wherein said back light control circuit controls said back light based on an image discriminating signal indicating an active state at said first period and an inactive state at said second period.

3. The liquid crystal display as claimed in claim 2, further comprising:

5 a controller controlling said display panel in response to said image discriminating signal indicating said active state so that at least a part of said display panel displays a reset image.

4. The liquid crystal display as claimed in claim 3, wherein said display panel comprises a plurality of cells, and

wherein at least a part of said plurality of cells displays a single color as said reset image.

5. The liquid crystal display as claimed in claim 3, wherein said display panel comprises:

a scanning line;

a signal line arranged substantially perpendicular to said scanning line;

5 and

a cell arranged at an intersection of said scanning line and said signal line,

wherein at least a part of said cell displays a single color as said reset image.

6. The liquid crystal display as claimed in claim 5, wherein said controller activates a first scanning line at a first scanning period and provides an image data to a first signal line, and said controller activates a second scanning line at a second scanning period and provides a reset data to said first signal line, and

wherein said first period and said second period are included in a basic period for scanning said scanning line.

7. The liquid crystal display as claimed in claim 6, further comprises at least one of a third scanning line arranged between said first scanning line and said second scanning line.

8. The liquid crystal display as claimed in claim 3, further comprising:

an input terminal receiving said image discriminating signal and providing said image discriminating signal to said controller and said back light control circuit.

9. The liquid crystal display as claimed in claim 8, wherein said image discriminating signal indicates said active state when a ratio of an area of said display panel to an area of said dynamic image is larger than a first threshold value.

10. The liquid crystal display as claimed in claim 9, wherein said controller receives dynamic image data at said first period and static image data at said second period, and

wherein said controller controls said display panel to display a dynamic image corresponding to said dynamic image data at said first period and to display said static image corresponding to said static image data at said second period.

11. The liquid crystal display as claimed in claim 10, further comprising:

a computer comprising:

a memory storing said first threshold value; and

5 a detector and comparator detecting said ratio of said area of said display panel and to said area of said dynamic image, comparing said ratio to said first threshold value, and providing said image discriminating signal into said controller and said back light control circuit,

10 wherein said image discriminating signal indicates said active state when said ratio is larger than said first threshold value.

12. The liquid crystal display as claimed in claim 11, wherein said image discriminating signal indicates said inactive state when said ratio is smaller than said first threshold value.

13. The liquid crystal display as claimed in claim 8, further comprising:

an image discriminating unit receiving image data and providing said image discriminating data indicating said active state into said back light control circuit when said image data comprises dynamic image data,

5 wherein said dynamic image data is data related to said dynamic image.

14. The liquid crystal display as claimed in claim 13, wherein said image discriminating unit provides said image discriminating data indicating said inactive state into back light control circuit when said image data comprises static image data, and

5 wherein said static image data is data related to said static image.

15. The liquid crystal display as claimed in claim 14, wherein said image data comprises a first part of said image data corresponding to a first frame and a second part of said image data corresponding to a second frame, and

5 wherein said image discriminating unit comprises a memory storing said first part of said image data at said first frame, and a comparator comparing said first part of said image data with said second part of said image data at said second frame, and detecting that said image data comprises said dynamic image data when said first part of said image data is different
10 from said second part of said image data.

16. The liquid crystal display as claimed in claim 15, wherein said comparator detects that said image data comprises said static image data when said first part of said image data is the same as said second part of said image data.

17. The liquid crystal display as claimed in claim 14, wherein said image data comprises a first part of said image data corresponding to a first frame and a second part of said image data corresponding to a second frame, and

5 wherein said image discriminating unit divides said first part of said image data into a first plurality of partial data corresponding to a plurality of detecting blocks of said display panel and said second part of said image data into a second plurality of partial data corresponding to a plurality of detecting blocks of said display panel.

18. The liquid crystal display as claimed in claim 17, wherein said image discriminating unit comprises a memory storing said first part of said image data at said first frame, and a comparator detecting said first plurality of partial data at said first frame which is different from said second plurality of 5 said second data at said second frame, providing a number of detected said first plurality of partial data at said first frame, and providing said image discriminating signal indicating said active state when said number is larger than a second threshold value.

19. The liquid crystal display as claimed in claim 14, wherein said image data comprises a first part of said image data corresponding to a first frame and a second part of said image data corresponding to a second frame, and

5 wherein said image discriminating unit define a first plurality of partial data corresponding to a plurality of detecting points of said display panel in said first part of said image data and a second plurality of partial data corresponding to a plurality of detecting points of said display panel in said second part of said image data.

20. The liquid crystal display as claimed in claim 19, wherein said image discriminating unit comprises a memory storing said first part of said image data at said first frame, and a comparator detecting said first plurality of partial data at said first frame which is different from said second plurality of 5 said second data at said second frame, providing a number of detected said first plurality of partial data at said first frame, and providing said image discriminating signal indicating said active state when said number is larger than a third threshold value.